

Learning to Fly: The Wright Brother's Adventure			
2004 Science			
Performance Standards			
Georgia Science			
Grade 6			
Activity/Lesson	State	Standards	
The Society	GA	SCI.6.S6CS9.b	Scientists often collaborate to design research. To prevent bias, scientists conduct independent studies of the same questions.
The Society	GA	SCI.6.S6CS9.c	Accurate record keeping, data sharing, and replication of results are essential for maintaining an investigator's credibility with other scientists and society.
Meet the Wrights	GA	SCI.6.S6CS6.b	Understand and describe how writing for scientific purposes is different than writing for literary purposes.
Meet the Wrights	GA	SCI.6.S6CS9.b	Scientists often collaborate to design research. To prevent bias, scientists conduct independent studies of the same questions.
Meet the Wrights	GA	SCI.6.S6CS9.c	Accurate record keeping, data sharing, and replication of results are essential for maintaining an investigator's credibility with other scientists and society.
1900: Kitty Hawks	GA	SCI.6.S6CS4.c	Read analog and digital meters on instruments used to make direct measurements of length, volume, weight, elapsed time, rates, and temperature, and choose appropriate units for reporting various quantities.
1900: Kitty Hawks	GA	SCI.6.S6CS6.b	Understand and describe how writing for scientific purposes is different than writing for literary purposes.
1900: Kitty Hawks	GA	SCI.6.S6CS9.c	Accurate record keeping, data sharing, and replication of results are essential for maintaining an investigator's credibility with other scientists and society.
1901: The First Improvement	GA	SCI.6.S6CS9.c	Accurate record keeping, data sharing, and replication of results are essential for maintaining an investigator's credibility with other scientists and society.
New Data	GA	SCI.6.S6CS4.a	Use appropriate technology to store and retrieve scientific information in topical, alphabetical, numerical, and keyword files, and create simple files.
New Data	GA	SCI.6.S6CS4.c	Read analog and digital meters on instruments used to make direct measurements of length, volume, weight, elapsed time, rates, and temperature, and choose appropriate units for reporting various quantities.

New Data	GA	SCI.6.S6CS8.b	When new experimental results are inconsistent with an existing, well-established theory, scientists may require further experimentation to decide whether the results are flawed or the theory requires modification.
New Data	GA	SCI.6.S6CS9.b	Scientists often collaborate to design research. To prevent bias, scientists conduct independent studies of the same questions.
New Data	GA	SCI.6.S6CS9.c	Accurate record keeping, data sharing, and replication of results are essential for maintaining an investigator's credibility with other scientists and society.
1902: Success at Last	GA	SCI.6.S6CS5.b	Identify several different models (such as physical replicas, pictures, and analogies) that could be used to represent the same thing, and evaluate their usefulness, taking into account such things as the model's purpose and complexity.
1903: Powered Flight	GA	SCI.6.S6CS5.b	Identify several different models (such as physical replicas, pictures, and analogies) that could be used to represent the same thing, and evaluate their usefulness, taking into account such things as the model's purpose and complexity.
1903: Powered Flight	GA	SCI.6.S6CS6.c	Organize scientific information using appropriate tables, charts, and graphs, and identify relationships they reveal.
1904: Improvement in Dayton	GA	SCI.6.S6CS6.b	Understand and describe how writing for scientific purposes is different than writing for literary purposes.
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2004 Science			
Performance Standards			
Georgia Science			
Grade 7			
Activity/Lesson	State	Standards	
The Society	GA	SCI.7.S7CS7.c	Question the value of arguments based on small samples of data, biased samples, or samples for which there was no control.
The Society	GA	SCI.7.S7CS9.d	Scientists often collaborate to design research. To prevent this bias, scientists conduct independent studies of the same questions.
The Society	GA	SCI.7.S7CS9.e	Accurate record keeping, data sharing, and replication of results are essential for maintaining an investigator's credibility with other scientists and society.

Meet the Wrights	GA	SCI.7.S7CS9.d	Scientists often collaborate to design research. To prevent this bias, scientists conduct independent studies of the same questions.
1900: Kitty Hawks	GA	SCI.7.S7CS9.e	Accurate record keeping, data sharing, and replication of results are essential for maintaining an investigator's credibility with other scientists and society.
1901: The First Improvement	GA	SCI.7.S7CS5.b	Understand that different models (such as physical replicas, pictures, and analogies) can be used to represent the same thing.
1901: The First Improvement	GA	SCI.7.S7CS9.c	Scientific experiments investigate the effect of one variable on another. All other variables are kept constant.
New Data	GA	SCI.7.S7CS4.a	Use appropriate technology to store and retrieve scientific information in topical, alphabetical, numerical, and keyword files, and create simple files.
New Data	GA	SCI.7.S7CS8.b	When new experimental results are inconsistent with an existing, well-established theory, scientists may pursue further experimentation to determine whether the results are flawed or the theory requires modification.
New Data	GA	SCI.7.S7CS9.c	Scientific experiments investigate the effect of one variable on another. All other variables are kept constant.
New Data	GA	SCI.7.S7CS9.d	Scientists often collaborate to design research. To prevent this bias, scientists conduct independent studies of the same questions.
New Data	GA	SCI.7.S7CS9.e	Accurate record keeping, data sharing, and replication of results are essential for maintaining an investigator's credibility with other scientists and society.
1902: Success at Last	GA	SCI.7.S7CS3.a	Analyze scientific data by using, interpreting, and comparing numbers in several equivalent forms, such as integers, fractions, decimals, and percents.
1902: Success at Last	GA	SCI.7.S7CS5.b	Understand that different models (such as physical replicas, pictures, and analogies) can be used to represent the same thing.
1903: Powered Flight	GA	SCI.7.S7CS4.b	Use appropriate tools for measuring objects and/or substances.
1903: Powered Flight	GA	SCI.7.S7CS6.c	Organize scientific information using appropriate simple tables, charts, and graphs, and identify relationships they reveal.
Learning to Fly: The Wright Brother's Adventure			
2004 Science			
Performance Standards			

Georgia Science			
Grade 8			
Activity/Lesson	State	Standards	
The Society	GA	SCI.8.S8CS9.d	Scientists often collaborate to design research. To prevent this bias, scientists conduct independent studies of the same questions.
The Society	GA	SCI.8.S8CS9.e	Accurate record keeping, data sharing, and replication of results are essential for maintaining an investigator's credibility with other scientists and society.
Wright Brothers: 1901 Glider	GA	SCI.8.S8CS9.e	Accurate record keeping, data sharing, and replication of results are essential for maintaining an investigator's credibility with other scientists and society.
Wright Brothers: 1902 Glider	GA	SCI.8.S8CS9.e	Accurate record keeping, data sharing, and replication of results are essential for maintaining an investigator's credibility with other scientists and society.
Wright Brothers: 1903 Flyer	GA	SCI.8.S8CS9.e	Accurate record keeping, data sharing, and replication of results are essential for maintaining an investigator's credibility with other scientists and society.
Meet the Wrights	GA	SCI.8.S8CS9.d	Scientists often collaborate to design research. To prevent this bias, scientists conduct independent studies of the same questions.
Meet the Wrights	GA	SCI.8.S8CS9.e	Accurate record keeping, data sharing, and replication of results are essential for maintaining an investigator's credibility with other scientists and society.
1900: Kitty Hawks	GA	SCI.8.S8CS9.d	Scientists often collaborate to design research. To prevent this bias, scientists conduct independent studies of the same questions.
1900: Kitty Hawks	GA	SCI.8.S8CS9.e	Accurate record keeping, data sharing, and replication of results are essential for maintaining an investigator's credibility with other scientists and society.
1901: The First Improvement	GA	SCI.8.S8CS9.c	Scientific experiments investigate the effect of one variable on another. All other variables are kept constant.
1901: The First Improvement	GA	SCI.8.S8CS9.d	Scientists often collaborate to design research. To prevent this bias, scientists conduct independent studies of the same questions.
1901: The First Improvement	GA	SCI.8.S8P3.b	Demonstrate the effect of balanced and unbalanced forces on an object in terms of gravity, inertia, and friction.

New Data	GA	SCI.8.S8CS4.a	Use appropriate technology to store and retrieve scientific information in topical, alphabetical, numerical, and keyword files, and create simple files.
New Data	GA	SCI.8.S8CS8.b	When new experimental results are inconsistent with an existing, well-established theory, scientists may pursue further experimentation to determine whether the results are flawed or the theory requires modification.
New Data	GA	SCI.8.S8CS9.c	Scientific experiments investigate the effect of one variable on another. All other variables are kept constant.
New Data	GA	SCI.8.S8CS9.d	Scientists often collaborate to design research. To prevent this bias, scientists conduct independent studies of the same questions.
New Data	GA	SCI.8.S8CS9.e	Accurate record keeping, data sharing, and replication of results are essential for maintaining an investigator's credibility with other scientists and society.
1902: Success at Last	GA	SCI.8.S8CS3.a	Analyze scientific data by using, interpreting, and comparing numbers in several equivalent forms, such as integers, fractions, decimals, and percents.
1902: Success at Last	GA	SCI.8.S8CS5.b	Understand that different models (such as physical replicas, pictures, and analogies) can be used to represent the same thing.
1903: Powered Flight	GA	SCI.8.S8CS4.b	Use appropriate tools and units for measuring objects and/or substances.
1903: Powered Flight	GA	SCI.8.S8CS5.b	Understand that different models (such as physical replicas, pictures, and analogies) can be used to represent the same thing.
1903: Powered Flight	GA	SCI.8.S8CS6.c	Organize scientific information in appropriate tables, charts, and graphs, and identify relationships they reveal.
Learning to Fly: The Wright Brother's Adventure			
2004 Science			
Performance Standards			
Georgia Science			
Grades 9-12 (Physical Science)			
Activity/Lesson	State	Standards	
The Society	GA	SCI.9-12.PS.SCS8.c	Scientists use practices such as peer review and publication to reinforce the integrity of scientific activity and reporting.
Meet the Wrights	GA	SCI.9-12.PS.SCS8.c	Scientists use practices such as peer review and publication to reinforce the integrity of scientific activity and reporting.

1900: Kitty Hawks	GA	SCI.9-12.PS.SCSH1.c	Explain that further understanding of scientific problems relies on the design and execution of new experiments which may reinforce or weaken opposing explanations.
1900: Kitty Hawks	GA	SCI.9-12.PS.SCSH6.a	Write clear, coherent laboratory reports related to scientific investigations.
1901: The First Improvement	GA	SCI.9-12.PS.SCSH4.c	Use technology to develop, test, and revise experimental or mathematical models.
1901: The First Improvement	GA	SCI.9-12.PS.SPS8.b.2	Apply Newton's three laws to everyday situations by explaining the following (Relationship between force, mass and acceleration)
1901: The First Improvement	GA	SCI.9-12.PS.SPS8.b.3	Apply Newton's three laws to everyday situations by explaining the following (Equal and opposite forces)
New Data	GA	SCI.9-12.PS.SCSH1.c	Explain that further understanding of scientific problems relies on the design and execution of new experiments which may reinforce or weaken opposing explanations.
New Data	GA	SCI.9-12.PS.SCSH3.c	Collect, organize and record appropriate data.
New Data	GA	SCI.9-12.PS.SCSH4.a	Develop and use systematic procedures for recording and organizing information.
New Data	GA	SCI.9-12.PS.SCSH6.c	Use data as evidence to support scientific arguments and claims in written or oral presentations.
New Data	GA	SCI.9-12.PS.SCSH7.b	Universal principles are discovered through observation and experimental verification.
New Data	GA	SCI.9-12.PS.SCSH8.a	Scientific investigators control the conditions of their experiments in order to produce valuable data.
New Data	GA	SCI.9-12.PS.SCSH8.b	Scientific researchers are expected to critically assess the quality of data including possible sources of bias in their investigations' hypotheses, observations, data analyses, and interpretations.
1902: Success at Last	GA	SCI.9-12.PS.SCSH1.c	Explain that further understanding of scientific problems relies on the design and execution of new experiments which may reinforce or weaken opposing explanations.
1902: Success at Last	GA	SCI.9-12.PS.SCSH4.c	Use technology to develop, test, and revise experimental or mathematical models.

1903: Powered Flight	GA	SCI.9-12.PS.SCSH1.c	Explain that further understanding of scientific problems relies on the design and execution of new experiments which may reinforce or weaken opposing explanations.
1903: Powered Flight	GA	SCI.9-12.PS.SCSH3.d	Graphically compare and analyze data points and/or summary statistics.
1903: Powered Flight	GA	SCI.9-12.PS.SCSH4.b	Use technology to produce tables and graphs.
1903: Powered Flight	GA	SCI.9-12.PS.SCSH4.c	Use technology to develop, test, and revise experimental or mathematical models.
1903: Powered Flight	GA	SCI.9-12.PS.SCSH5.a	Trace the source on any large disparity between estimated and calculated answers to problems.
1903: Powered Flight	GA	SCI.9-12.PS.SCSH5.b	Consider possible effects of measurement errors on calculations.
1904: Improvement in Dayton	GA	SCI.9-12.PS.SCSH6.c	Use data as evidence to support scientific arguments and claims in written or oral presentations.
1904: Improvement in Dayton	GA	SCI.9-12.PS.SPS8.b.2	Apply Newton's three laws to everyday situations by explaining the following (Relationship between force, mass and acceleration)
1904: Improvement in Dayton	GA	SCI.9-12.PS.SPS8.b.3	Apply Newton's three laws to everyday situations by explaining the following (Equal and opposite forces)
Learning to Fly: The Wright Brother's Adventure			
2004 Science			
Performance Standards			
Georgia Science			
Grades 9-12 (Physics)			
Activity/Lesson	State	Standards	
The Society	GA	SCI.9-12.P.SCSH8.c	Scientists use practices such as peer review and publication to reinforce the integrity of scientific activity and reporting.
Meet the Wrights	GA	SCI.9-12.P.SCSH8.c	Scientists use practices such as peer review and publication to reinforce the integrity of scientific activity and reporting.
Meet the Wrights	GA	SCI.9-12.P.SP1.c	Compare graphically and algebraically the relationships among position, velocity, acceleration, and time.
1900: Kitty Hawks	GA	SCI.9-12.P.SCSH1.c	Explain that further understanding of scientific problems relies on the design and execution of new experiments which may reinforce or weaken opposing explanations.

1900: Kitty Hawks	GA	SCI.9-12.P.SCSH6.a	Write clear, coherent laboratory reports related to scientific investigations.
1901: The First Improvement	GA	SCI.9-12.P.SCSH4.c	Use technology to develop, test, and revise experimental or mathematical models.
1901: The First Improvement	GA	SCI.9-12.P.SP1.c	Compare graphically and algebraically the relationships among position, velocity, acceleration, and time.
1901: The First Improvement	GA	SCI.9-12.P.SP1.d	Measure and calculate the magnitude of frictional forces and Newton's three Laws of Motion.
New Data	GA	SCI.9-12.P.SCSH1.c	Explain that further understanding of scientific problems relies on the design and execution of new experiments which may reinforce or weaken opposing explanations.
New Data	GA	SCI.9-12.P.SCSH3.c	Collect, organize and record appropriate data.
New Data	GA	SCI.9-12.P.SCSH4.a	Develop and use systematic procedures for recording and organizing information.
New Data	GA	SCI.9-12.P.SCSH6.c	Use data as evidence to support scientific arguments and claims in written or oral presentations.
New Data	GA	SCI.9-12.P.SCSH7.b	Universal principles are discovered through observation and experimental verification.
New Data	GA	SCI.9-12.P.SCSH8.a	Scientific investigators control the conditions of their experiments in order to produce valuable data.
New Data	GA	SCI.9-12.P.SCSH8.b	Scientific researchers are expected to critically assess the quality of data including possible sources of bias in their investigations' hypotheses, observations, data analyses, and interpretations.
1902: Success at Last	GA	SCI.9-12.P.SCSH1.c	Explain that further understanding of scientific problems relies on the design and execution of new experiments which may reinforce or weaken opposing explanations.
1902: Success at Last	GA	SCI.9-12.P.SCSH4.c	Use technology to develop, test, and revise experimental or mathematical models.
1903: Powered Flight	GA	SCI.9-12.P.SCSH1.c	Explain that further understanding of scientific problems relies on the design and execution of new experiments which may reinforce or weaken opposing explanations.
1903: Powered Flight	GA	SCI.9-12.P.SCSH3.d	Graphically compare and analyze data points and/or summary statistics.
1903: Powered Flight	GA	SCI.9-12.P.SCSH4.b	Use technology to produce tables and graphs.
1903: Powered Flight	GA	SCI.9-12.P.SCSH4.c	Use technology to develop, test, and revise experimental or mathematical models.

1903: Powered Flight	GA	SCI.9-12.P.SCSH5.a	Trace the source on any large disparity between estimated and calculated answers to problems.
1903: Powered Flight	GA	SCI.9-12.P.SCSH5.b	Consider possible effects of measurement errors on calculations.
1904: Improvement in Dayton	GA	SCI.9-12.P.SCSH6.c	Use data as evidence to support scientific arguments and claims in written or oral presentations.
1904: Improvement in Dayton	GA	SCI.9-12.P.SP1.c	Compare graphically and algebraically the relationships among position, velocity, acceleration, and time.
1905: Complete a Flight at Last	GA	SCI.9-12.P.SCSH1.c	Explain that further understanding of scientific problems relies on the design and execution of new experiments which may reinforce or weaken opposing explanations.